AUTODOC CLUB

How to change spark plugs on **BMW 3 Convertible (E93)** – replacement guide

SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

Important!

This replacement procedure can be used for:
BMW 3 Convertible (E93) 320i 2.0

The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: BMW 3 Convertible (E46) 318Ci 2.0

REPLACEMENT: SPARK PLUGS – BMW 3 CONVERTIBLE (E93). TOOLS YOU MIGHT NEED:



- Electronic spray
- High-temperature anti-seize lubricant
- Torx bit T20
- Spark plug socket # 16
- Ratchet wrench
- Torque wrench
- Telescoping magnet
- Crow bar
- Fender cover

Buy tools

Replacement: spark plugs – BMW 3 Convertible (E93). Professionals recommend:

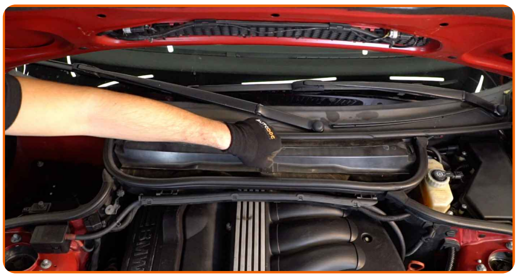
- The replacement procedure is the same for all spark plugs.
- Warning! Shut down the engine before starting any work – BMW 3 Convertible (E93).

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

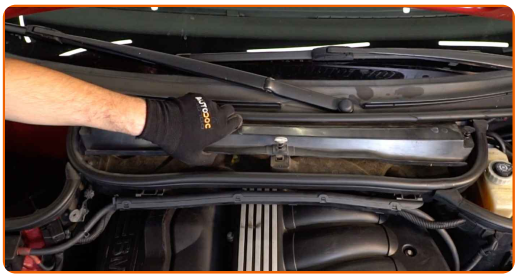
1 Open the hood.

2 Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

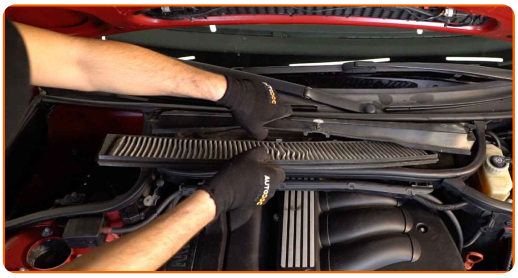
3 Unscrew the fasteners of the cabin filter housing cover.



4.1 Raise a little the cabin filter housing cover.



4.2 Remove the cabin filter.



Replacement: spark plugs – BMW 3 Convertible (E93). AUTODOC experts recommend:

- To avoid damaging the cabin filter cover, do not remove it before removing the filtering element.

5 Remove the rubber strip.



6 Remove the cabin filter housing cover.



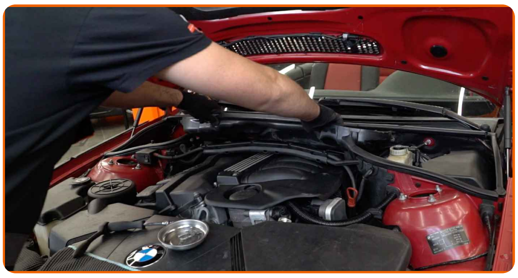
7 Disconnect the wiring harness from the cabin filter housing.



8 Unscrew the filter housing fastening bolts. Use Torx T20. Use a ratchet wrench.



9 Remove the cabin air filter housing.



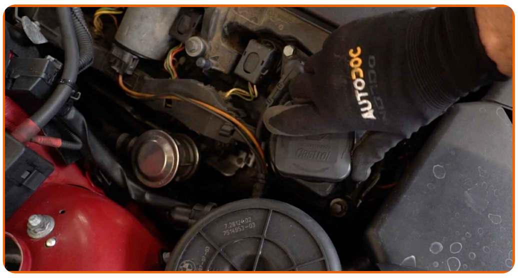
10 Unscrew the oil filler plug.



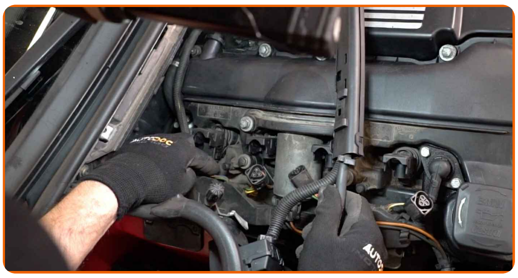
11 Remove the engine cover.



12 Tighten the oil filler cap.



13 Unplug the connectors from the ignition coils.



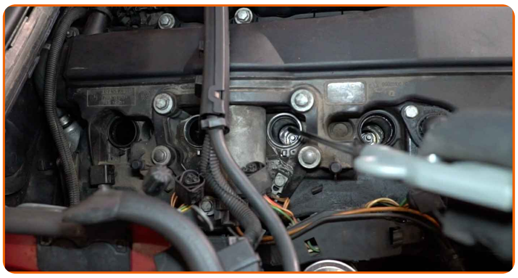
14 Take out the ignition coil from the spark plug well. Use a crowbar.



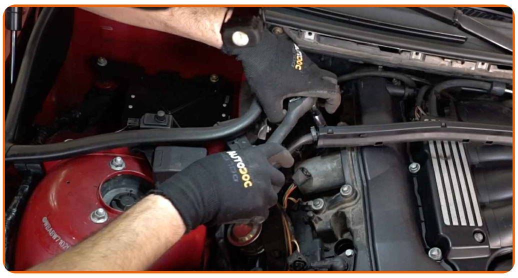
Replacement: spark plugs – BMW 3 Convertible (E93). Tip:

- Remember the sequence of steps for ignition coil demounting.

15 Clean dirt, dust and debris from inside the spark plug wells.



16 Unscrew the spark plugs. Use the spark plug socket #16. Use a ratchet wrench.



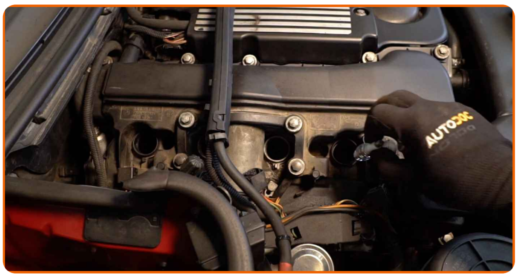
17 Take out the spark plugs. Use a telescoping magnet.



18 Apply a thin layer of a special high temperature anti-seize lubricant to the threads of the new spark plugs. Treat the surface of the terminals of the new spark plugs. Use high-temperature grease.



19 Install the new spark plugs into their mounting seats.



20 Screw new spark plugs and tighten them. Use the spark plug socket #16. Use a torque wrench. Tighten it to 27 nm torque.



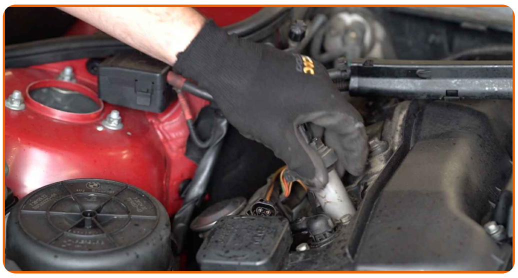
Replacement: spark plugs – BMW 3 Convertible (E93). Tip from AUTODOC experts:

- Don't tighten the plugs with excessive force. Exceeding tightening torque can damage the thread connection.
- Be careful when working with a spark plug wrench. Its skewing can cause damage to the threaded connection.

21 Treat the ignition coil connector with electronic spray. The spray will protect the electrical contacts from corrosion, oxidation, and will reduce the contact resistance.



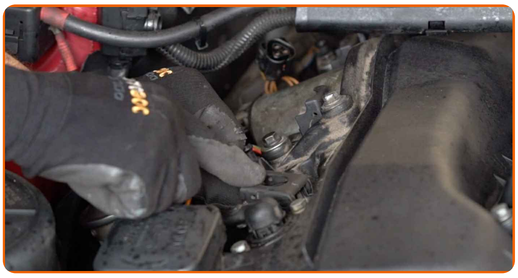
22 Install the ignition coils to the spark plug wells. Make sure you hear a click indicating that it is locked in place.



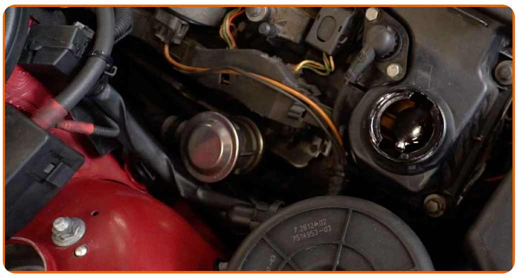
Replacement: spark plugs – BMW 3 Convertible (E93). AUTODOC recommends:

- Follow the installation sequence.

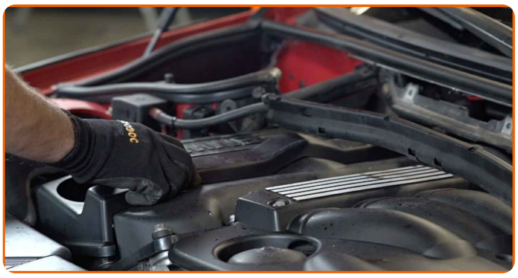
23 Plug in the connectors of the ignition coils.



24 Unscrew the oil filler plug.



25 Install the engine cover and secure it.



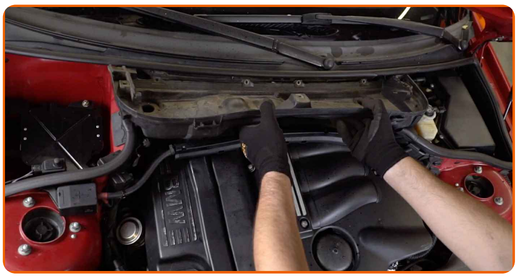
Replacement: spark plugs – BMW 3 Convertible (E93). Tip from AUTODOC experts:

- Make sure the engine cover is properly seated. It should not be displaced with respect to the guiding fasteners.
- Do not apply excessive force when installing the part. Otherwise you may damage the fasteners.

26 Tighten the oil filler cap.



27 Install the cabin air filter housing.



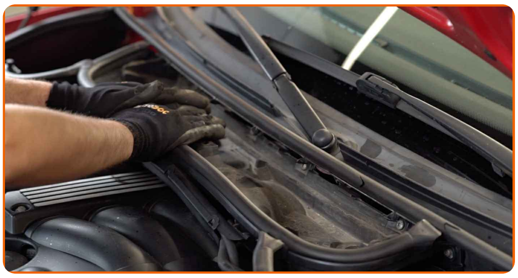
28 Screw in the cabin filter fasteners. Use Torx T20. Use a ratchet wrench.



29 Connect the wiring harness to the cabin filter housing.



30 Install the rubber strip.



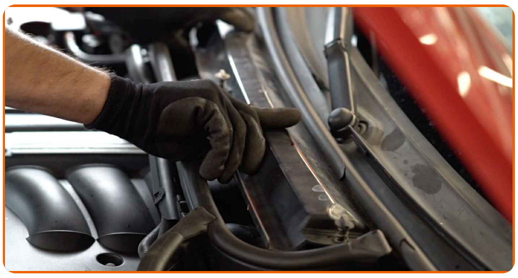
31 Insert the filter cartridge into the filter housing. Make sure that the filter edge fits tight to the housing.



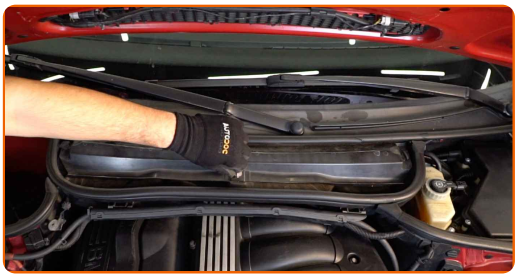
Replacement: spark plugs – BMW 3 Convertible (E93). Tip from AUTODOC:

- Follow the air flow direction arrow on the filter.
- Check out the correct location of the filter element. Do not skew.

32 Reinstall the cabin filter housing cover.



33 Screw in the fasteners of the cabin filter housing cover.



34 Remove the fender protection cover.

35 Close the hood.

WELL DONE!

VIEW MORE TUTORIALS

AUTODOC — TOP QUALITY AND AFFORDABLE CAR PARTS ONLINE

DISCLAIMER:

The document contains only general recommendations that may be useful for you when you perform repair or replacement work. AUTODOC shall not be liable for any loss, injury, damage of property occurring in the repair or replacement process due to incorrect use or misinterpretation of the provided information.

AUTODOC shall not be liable for any possible mistakes and uncertainties in this guide. The information provided is for information purposes only and cannot replace advice from specialists.

AUTODOC shall not be liable for incorrect or hazardous usage of equipment, tools and car parts. AUTODOC strongly recommends to be careful and observe the safety rules when performing repair or replacement works. Remember: usage of low quality auto parts does not guarantee you the appropriate level of road safety.